

5 I CLAIM:

1. A connector assembly for containers used in sterile operations comprising: a connector having two ends and a flange formed thereon; and an over-wrap bag enclosing one of said ends, said over-wrap bag being attached to said flange for maintaining sterility said enclosed end.

2. The connector assembly of claim 1 further including another bag for enclosing said  
10 connector and said over-wrap bag for maintaining the sterility of said both ends of said connector assembly.

3. The connector assembly of claim 1 wherein said flange is curved.

4. The connector assembly of claim 1 wherein said flange is flat.

5. The connector assembly of claim 1 wherein the other end of said connector is attached  
15 to a large fluid-processing bag.

6. The connector assembly of claim 5 further including another bag enclosing said large fluid-processing bag, said connector and said over-wrap bag.

7. A sterile connector assembly comprising: a connector having two ends; a sealing bag enclosing one end of said connector; and a second bag enclosing the said connector and said  
20 sealing bag for double sealing said end of said connector enclosed by said sealing bag, whereby said second bag is open in a sterile field so that the exposed end of the connector may be attached to sterile tubing said other end of said connector remaining sealed in said sealing bag to maintain its sterility.

8. The sterile connector assembly of claim 7 further including a flange formed on said  
25 connector intermediate said two ends.

5           9. The sterile connector assembly of claim 8 wherein said sealing bag is attached to said  
flange.

10. The sterile connector assembly of claim 8 wherein said flange is curved.

11. The sterile connector assembly of claim 8 wherein said flange is flat.

12. The sterile connector assembly of claim 9 wherein said sealing bag is attached to said  
10 flange by a heat seal.

13. The sterile connector assembly of claim 7 wherein said connector is a hose barb  
connector.

14. The sterile connector assembly of claim 1 wherein said over-wrap bag is a zipper-  
locking bag.

15. The sterile connector assembly of claim 14 wherein said over-wrap bag is heat sealed  
adjacent said zipper lock to prevent said zipper lock from opening unless said heat seal is cut  
away.

20

25